MHATT-CAT

Center for Real-Time X-ray Studies

Overview

The Center for Real-Time X-ray Studies CAT (MHATT-CAT) was formed in 1989 as a university-industry partnership between the University of Michigan, Howard University, and Bell Laboratories (Lucent Technologies). MHATT-CAT's facilities include two fully instrumented beamlines (one based on an undulator and the other on a bend magnet) to exploit the unique characteristics of the APS. A high-speed communications network between the participating institutions and the APS is planned to facilitate the involvement of students in the MHATT-CAT collaboration and to maximize participation in research at national user facilities.

Research Focus

MHATT-CAT's research program is focused on time-dependent structural phenomena across a broad range of materials systems, including thin films, polymers, liquid crystals, and biomaterials. The undulator line serves as the host for microprobe studies of high-temperature superconductors, interconnects, and optical fibers; for the development of coherent x-ray scattering techniques; and for the application of ultrafast lasers. The sector is expected to develop into an international gathering point for scientists and engineers with strong interest in time-resolved structural studies.

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